

## Appendix 5-2

### Reconciliation of 2007 Attainment and Maintenance Inventories

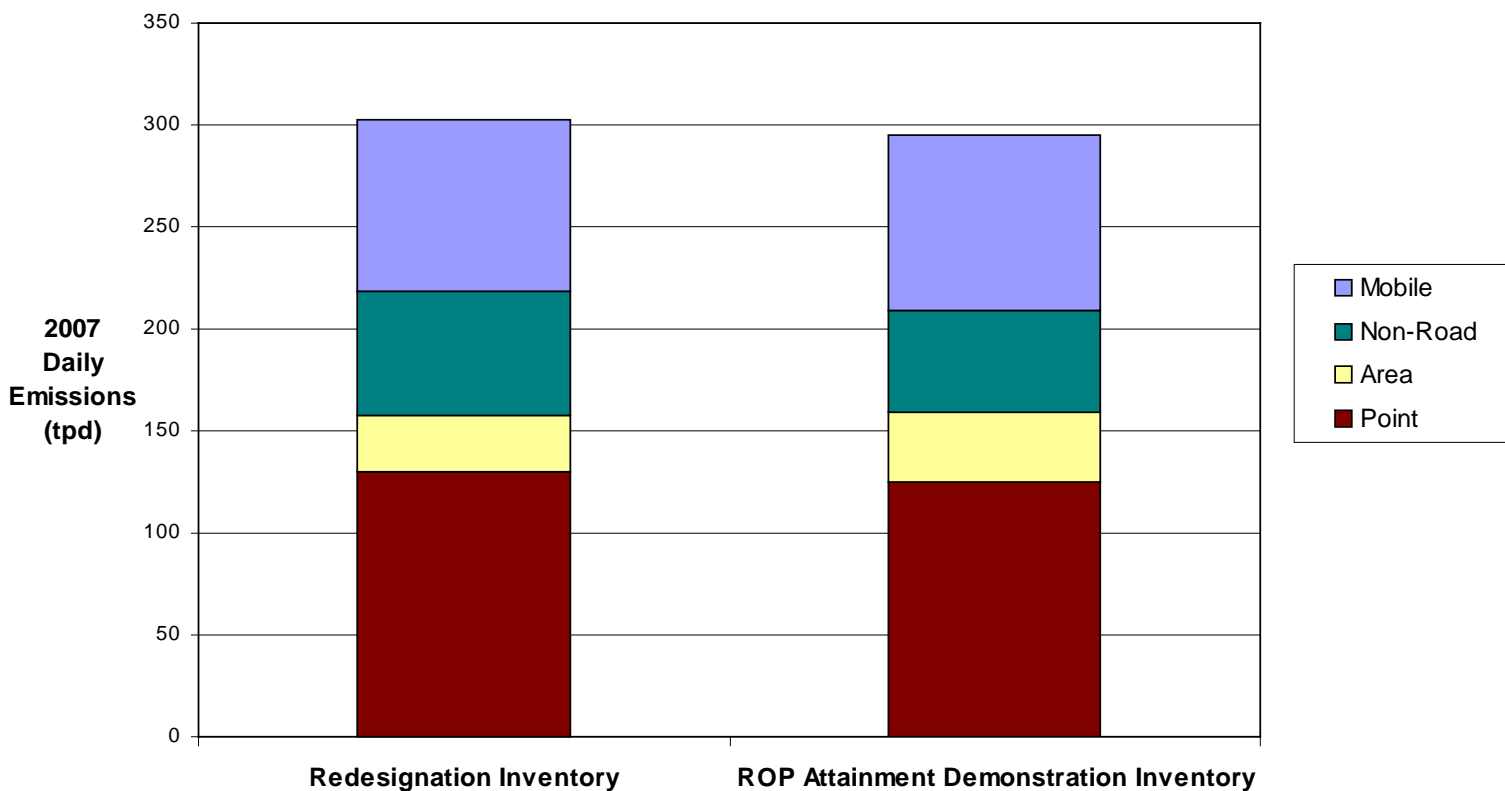
A 2007 projected Rate-of-Progress (ROP) emissions inventory was submitted as part of the approved 1-hr ozone attainment demonstration package. A 2007 Projected Emission Inventory has been forecasted from the 1999 Redesignation Emission Inventory. The assumptions used in developing the 2007 projected ROP emissions inventory are detailed in the 1-hr ozone attainment demonstration package. The assumptions used in developing the 1999 Redesignation Emission Inventory are detailed in the attached emission inventories technical appendix.

The two 2007 emission inventories are summarized and compared in **Table 1**. In the comparison section of **Table 1**, 2007 attainment demonstration (ROP) emissions are subtracted from 2007 redesignation emissions. The emission inventories are compared for Manitowoc county, Sheboygan county and the six county area equivalent to the consolidated metropolitan statistical area (CMSA) comprised of Kenosha, Milwaukee, Ozaukee, Racine, Washington and Waukesha counties. The agreement between the overall nitrogen oxides (NOx) and volatile organic compound (VOC) totals for the two inventories is good within 2.4% and 1.0% respectively. In the cases of NOx and VOC, the differences between area source emissions are essentially balanced by differences between the point and non-road emissions. **Figure 1** and **Figure 2** summarize the comparison graphically. The "8-counties" area referred to in the figures includes Kenosha, Manitowoc, Milwaukee, Ozaukee, Racine, Sheboygan, Washington and Waukesha counties.

**Table 1: Summaries and Comparison of the 2007 Redesignation Emission Inventory and the 2007 Projected ROP Attainment Demonstration Emission Inventory**

<b>2007 Redesignation Emission Inventory</b>										
	<b>Nitrogen oxides</b>					<b>Volatile organic compounds</b>				
	<b>Point</b>	<b>Area</b>	<b>Non-Road</b>	<b>Mobile</b>	<b>Totals</b>	<b>Point</b>	<b>Area</b>	<b>Non-Road</b>	<b>Mobile</b>	<b>Totals</b>
<b>6 County (Milw CMSA)</b>	102.0	24.5	51.9	71.4	249.8	22.9	100.0	26.7	32.2	181.8
<b>Sheboygan County</b>	25.0	2.2	6.0	6.4	39.5	3.4	7.2	2.7	3.2	16.5
<b>Manitowoc County</b>	3.1	1.1	2.4	6.3	12.9	2.2	6.5	1.7	3.1	13.6
<b>Kewaunee County</b>	0.0	0.2	0.6	1.0	1.8	0.7	1.3	0.6	0.6	3.2
<b>Door County</b>	0.0	0.4	1.1	2.0	3.5	0.2	2.6	4.0	1.2	7.9
<b>Totals</b>	130.1	28.3	62.0	87.1	307.5	29.4	117.6	35.7	40.4	223.0
<b>2007 Projected ROP Attainment Demonstration Emission Inventory</b>										
	<b>Nitrogen oxides</b>					<b>Volatile organic compounds</b>				
	<b>Point</b>	<b>Area</b>	<b>Non-Road</b>	<b>Mobile</b>	<b>Totals</b>	<b>Point</b>	<b>Area</b>	<b>Non-Road</b>	<b>Mobile</b>	<b>Totals</b>
<b>6 County (Milw CMSA)</b>	93.0	30.2	41.5	71.4	236.1	N/A				
<b>Sheboygan County</b>	28.8	2.2	4.7	6.4	42.1					
<b>Manitowoc County</b>	3.1	1.6	3.8	8.3	16.8					
<b>Totals</b>	124.9	34.0	50.0	86.1	295.0	45.0	96.0	32.0	41.0	214.0
<b>Comparison of the 2007 Redesignation Emission Inventory and the 2007 Projected ROP Attainment Demonstration Emission Inventory</b>										
	<b>Nitrogen oxides</b>					<b>Volatile organic compounds</b>				
	<b>Point</b>	<b>Area</b>	<b>Non-Road</b>	<b>Mobile</b>	<b>Totals</b>	<b>Point</b>	<b>Area</b>	<b>Non-Road</b>	<b>Mobile</b>	<b>Totals</b>
<b>6 County (Milw CMSA)</b>	9.0	-5.7	10.4	0.0	13.7	N/A				
<b>Sheboygan County</b>	-3.8	0.0	1.3	0.0	-2.6					
<b>Manitowoc County</b>	0.0	-0.5	-1.4	-2.0	-3.9					
<b>Totals</b>	5.2	-6.3	10.3	-1.97	7.25	-16.5	17.7	-0.9	-2.4	-2.1

**Figure 1: Comparison of NO<sub>x</sub> Emissions in the 2007 Redesignation Emission Inventory and 2007 ROP Attainment Demonstration Emission Inventory for the 8-Counties in Tons per Ozone Season Day (tpd)**



**Figure 2: Comparison of VOC Emissions in the 2007 Redesignation Emission Inventory and 2007 ROP Attainment Demonstration Emission Inventory for the 8-Counties in Tons per Ozone Season Day (tpd)**

